



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1733625	PAGE 1
REPORT DATE:	08/02/22	
DATE SAMPLED:	07/11/22	DATE RECEIVED: 07/12/22
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty nine water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent page.

SAMPLE DATA

SAMPLE ID	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
TS-1	0.006	<0.001	<0.010				
TS-2	0.063	0.004	1.25				
TS-3	0.031		2.77				
TS-4a	0.029		0.198				
TS-4d	0.037						
TS-5a	0.017		0.026			11	1.1
TS-5b	0.020						
TS-5d	0.021						
TS-6a	0.015	<0.001	0.016	120		4.3	<0.1
TS-6b	0.014						
TS-6c	0.019						
TS-6d	0.016	<0.001					
TS-7a	0.018		0.017			3.8	<0.1
TS-7b	0.011						
TS-7d	0.012						
TS-8a	0.037		0.017			8.5	3.0
TS-8d	0.042						
TS-9	0.138	0.066	15.3	422	63.4		
TS-11a	0.028	0.002	0.136	140		12	0.4
TS-11b	0.028						
TS-11c	0.030						
TS-11d	0.032						
TS-12a	0.025		0.031			14	1.7
TS-12d	0.022						
TS-14	0.153	0.120	1.41	167	18.3		
TS-15a	0.029		0.018			12	0.8
TS-15b	0.029						
TS-15c	0.021						
TS-15d	0.021						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	88	
TS-2		2.97
TS-6a		0.520
TS-9	587	
TS-11a		0.675
TS-14	202	2.34



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QA/QC DATA

QC PARAMETER	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7	SM1810200H	SM1810200H
DATE ANALYZED	07/19/22	07/12/22	07/13/22	07/20/22	07/18/22	07/15/22	07/15/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-15d	TS-14	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.021	0.120	0.114	161	<0.500	5.3	1.9
DUPLICATE	0.021	0.123	0.112	160	<0.500	5.6	1.6
RPD	0.07%	2.47%	1.92%	0.62%	NC	5.41%	16.67%
SPIKE SAMPLE							
SAMPLE ID	TS-15d	TS-14	BATCH		BATCH		
ORIGINAL	0.021	0.120	0.114		<0.500		
SPIKED SAMPLE	0.067	0.138	0.291		9.61		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	92.58%	89.26%	88.37%	NA	96.08%	NA	NA
QC CHECK							
FOUND	0.094	0.039	0.422	98.3	10.5		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	100.00%	100.00%	103.55%	98.30%	105.00%	NA	NA
BLANK							
	<0.002	<0.010	<0.010	NA	<0.500	NA	NA

RPD = RELATIVE PERCENT DIFFERENCE.
 NA = NOT APPLICABLE OR NOT AVAILABLE.
 NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
 OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski
 Project Manager